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Datasheet for ABIN7555396

SLC12A4 Protein (AA 1-1085) (His tag)

Overview

Quantity:	1 mg
Target:	SLC12A4
Protein Characteristics:	AA 1-1085
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC12A4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat SLC12A4 Protein expressed in mammalien cells.
Sequence:	MPHFTVVPVD GPRRGDYDNL EGLSWVDYGE RAELDDSDGH GNHRESSPFL SPLEASRGID YYDRNLALFE EELDIRPKVS SLLGKLVSYT NLTQGAKEHE EAESGEGTRR RAAEAPSMGT LMGVYLPCLQ NIFGVILFLR LTWMVGTAGV LQALLIVLIC CCCTLLTAIS MSAIATNGVV PAGGSYFMIS RSLGPEFGGA VGLCFYLGTT FAAAMYILGA IEILLTYIAP PAAIFYPSGA HDTSNATLNN MRVYGTIFLT FMTLVVFGV KYVNKFASLF LACVIISILS IYAGGIKSIF DPPVFPVCML GNRTLSDQF DICAKTAVVD NETVATQLWS FFCHSPNLTT DSCDPYFMLN NVTEIPGIPG AAAGVLQENL WSAYLEKEDI VEKHGLPSAD APSLKESLPL YVADIATSF TVLVGIFFPS VTGIMAGSNR SGLDRDAQKS IPVGTILAI TTSLVYFSSV VLFGACIEGV VLRDKYGDGV SRNLVVGTLA WPSPWVIVIG SFFSTCGAGL QSLTGAPRLL QAIKDNIIIP FLRVFGHGKV NGEPTWALLL TALIAELGIL IASLDMVAPI LSMFFLMCYL FVNLACAVQT LLRTPNWRPR FKYHWHWALS LGMSLCLALM FVSSWYYALV AMLIAGMIYK YIEYQGAEKE

Product Details

WGDGIRGLSL SAARYALLRL EEGPPHTKNW RPQLLVLLKL DEDLHVKYPR LLTFASQLKA
GKGLTIVGSV IQGSFLESYG EAQAAEQTIK NMMEIEKVKG FCQVVVASKV REGLAHLIQS
CGLGGMRHNS VVLGWPYGWR QSEDPRAWKT FIDTVRCTTA AHLALLVPKN IAFYPSNHER
YLEGHIDVWW IVHDGGMLML LPFLLRQHKV WRKCRMRIFT VAQMDDNSIQ MKKDLAVFLY
HLRLEAEVEV VEMHNSDISA YTYERTLMME QRSQMLRQMR LTKTEREREA QLVKDRHSAL
RLESLSDEE DESAVGADKI QMTWTRDKYM TETWDPSHAP DNFRELVHIK PDQSNVRRMH
TAVKLNEVIV TRSHDARLVL LNMPGPPRNS EGDENYMEFL EVLTEGLERV LLVRGGGREGV ITIYS

Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary.

In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

SLC12A4

Alternative Name:

SLC12A4 ([SLC12A4 Products](#))

Background:

Solute carrier family 12 member 4 (Electroneutral potassium-chloride cotransporter 1) (Erythroid K-Cl cotransporter 1) (hKCC1),FUNCTION: Mediates electroneutral potassium-chloride cotransport when activated by cell swelling. May contribute to cell volume

Target Details

homeostasis in single cells (PubMed:10913127, PubMed:34031912). May be involved in the regulation of basolateral Cl(-) exit in NaCl absorbing epithelia (By similarity).
{ECO:0000250|UniProtKB:Q9JIS8, ECO:0000269|PubMed:10913127, ECO:0000269|PubMed:34031912}., FUNCTION: [Isoform 4]: No transporter activity.
{ECO:0000269|PubMed:11551954}.

Molecular Weight: 120.7 kDa

UniProt: [Q9UP95](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months